BRUHATH BENGALORE MAHANAGARA PALIKE

Byatarayanapura Division

Aggrement No. ,BBMP/EE/BTP/AG/121/2020-21 Date- 29/09/2020

Work Order No. BBMP/EE/BTP/WO/121/2020-21 Date- 29/09/2020

Job Code / Indent No :- 005-20-000098

Name of Work: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Babanagar, Srirampura, MCECHS Layout, Palanahalli and Surrounding areas in Ward No.05

Name of Agency: Sri. B B Umesha (M/s SMLP Asphalts)

Modified Schedule-B

Item No	Description of Item	unit	Qty	Rate	In words
1	Removing and Refixing stone slabs of drains and pointing in C.M(1:3) with all lead and lift and as per the directioon of Engineer in -charge	Sqm	2150.15	116.00	Rupees One Hundred Sixteen Only
2	KSRRB300 - Excavation for road, drains and similar works ,KSRRB300-1 : Earthwork excavation by manual means in ordinary soil involving as average horizontal throw upto 2 mters and an average lifts upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled	Cum	4331.95	217.00	Rupees Two Hundred Seventeen Only
3	Providing granite slabs of selected quality roughly dressed having a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing etc.,	Sqm	2525.00	779.00	Rupees Seven Hundred Seventy Nine Only
4	KSRB M2100-10 : Providing and laying plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89 cum and fine aggregtes @ 0.46cum, in foundation machanically mixed, placed in foundation and compacted by vibration including	Cum	700.33	5692.00	Rupees Five Thousand Six Hundred Ninety Two Only
5	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including	Cum	873.34	7423.00	Rupees Seven Thousand Four Hundred Twenty Three Only
6	KSRRB M 2200-6 Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as	Tn	53.49	75936.00	Rupees Seventy Five Thousand Nine Hundred Thirty Six Only

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Item No	Description of Item	unit	Qty	Rate	In words
7	KSRB 5.2-3: Providing and constructing granite / trap / baslt size stone masonary in foundation with cement mortar , stone hammered dressed in course not less than 20 cms high, bond stones at 2m. Apart	Cum	43.40	5114.00	Rupees Five Thousand One Hundred Fourteen Only
8	KSRB 4-1.6: Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC at 240kgs, with 20mm and down size granite metal coarse aggregates at 0.878 cum and fine aggregates at 0.53cum , mechine mixed, concrete laid in layers not	Cum	267.50	6034.00	Rupees Six Thousand Thirty Four Only
9	KSRB 5-14: providing and constructing load bearing wall with solid concrete blocks of size 400mm*150mm*200mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00N/mm2 confirming to IS 2185(part) : 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of	Sqm	2355.43	1028.00	Rupees One Thousand Twenty Eight Only
10	Providing and Fixing RCC pre cast covering Slab of 100mm thick for drains in cement concrete M25 using graded granite jelly 20mm and down size with steel reinforecement , inclunding form work, lift charges, curing and concrete finishined surfaces on	Sqm	5208.87	2453.00	Rupees Two Thousand Four Hundred Fifty Three Only
11	Providing and Fixing pre cast covering Slab 250mm thick made out of M25 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of all materials,	Sqm	192.27	5688.00	Rupees Five Thousand Six Hundred Eighty Eight Only
12	KSRRB M300-14: Excavation for roadwork in soil with hydralic excavation of 0.9 cum bucket capacity including cutting and laoding in tippers,trimming bottom and side slopes , in accordance with requiement of lines , grades and cross section , and transporting to the embankment location to a lead	Cum	7681.13	60.00	Rupees Sixty Only
13	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing in a mechanical mix plant at OMC , Carriage of mixed materials to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller				Rupees Nil
	Quantity Up to 125%	Cum	3393.08	2,094.00	Rupees Two Thousand Ninety Four Only
	Quantity Above 125%	Cum	50.28	2,094.00	Rupees Two Thousand Ninety Four Only
14	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the	Cum			Rupees Nil

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	Quantity Up to 125%	Cum	5089.61	2,101.00	Rupees Two Thousand One Hundred One Only
	Quantity Above 125%	Cum	75.67	2,101.00	Rupees Two Thousand One Hundred One Only
15	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and sparying primer at the rte of 0.60 kg /sqm using mechanical means complete as per	Sqm	22953.48	30.00	Rupees Thirty Only
16	KSRRB 500-2 : Cleaning the existing black topped surfce with brooms, soft brushes and finally dusting with old gunny bags and /or compressed air to receive bituminous treatment including cost of	Sqm	3715.78	6.00	Rupees Six Only
17	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of materials ,	Sqm	26669.25	13.00	Rupees Thirteen Only
18	KSRRB M500-17. Providing and laying Dense Graded Bituminous Macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. clause 505 of MORTH V revisionusing	Cum	1147.92	6926.00	Rupees Six Thousand Nine Hundred Twenty Six Only
19	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP- 53-2015.do- using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting	Cum	1070.72	8140.00	Rupees Eight Thousand One Hundred Forty Only
20	KSRRB M800-13. Road Marking with Hot Applied 'Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The	Sqm	816.37	477.00	Rupees Four Hundred Seventy Seven Only

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21	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to 18:383-2016, with Superplastizer at 3 Its conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as	cum	247.81	5470.00	Rupees Five Thousand Four Hundred Seventy Only
E1	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete.-do 10 cm Thick & KSRB	Sqm	50.67	2677.97	Rupees Two Thousand Six Hundred Seventy Seven And Paise Ninety Seven Only
E2	Providing and Fixing RCC pre cast covering Slab of 15cm , inclunding cost of reinforcement as per design and drawing material cost, transportation , hire charges of machinary , machine cutting the vertical face to get plain even surface etc.Complete with all leads and lifts conveynce charges , labour	Sqm	35.01	2616.65	Rupees Two Thousand Six Hundred Sixteen And Paise Sixty Five Only

Executive Engineer
Byatarayanapura Division
BBMP, Bangalore